

dental object, and precise color characteristics may be determined with the spectrometer apparatus. Thus, the camera or imaging element may be configured to generate a desirable (e.g., quality) image of the dental object, while the spectrometer apparatus may be configured to generate a high quality, spectrometer-based color measure of the dental object, with the result that a quality image may be obtained of the dental object and quality color data may be taken of the dental object. This also allows such image and color data to be processed so that color characteristics thus may be determined in the plurality of regions based on the spectrometer data generated with the spectrometer apparatus.

Applicant has reviewed its issued patents and other pending applications. While Applicant does not admit that the inventions defined in the terminally disclaimed patents and patent application are not patentably distinct from the presently claimed invention, in an effort to expedite prosecution Applicant has endeavored to terminally disclaim those patents (and patent application) that are directed to color measurement including at least some claims reciting some type of image capture.

In the event that the Examiner has any questions regarding Applicant's other patents and patent applications or the content of the terminal disclaimer, Applicant's attorney requests an opportunity to discuss such matters with the Examiner.

No new matter has been added.

It is submitted that the foregoing amendments should position the application in condition for allowance, and such is respectfully requested.

Please charge any additional fees due, or credit any overpayment, to Deposit Account No. 50-0251.

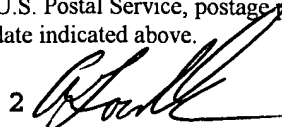
Respectfully submitted,



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I hereby certify that the foregoing is being deposited with the U.S. Postal Service, postage prepaid, to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated above.

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Docket No.	Serial No.	Filing Date	Title	Status
JL-9601	08/581,851	01/02/96	APPARATUS FOR DETERMINING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 5,745,229
JL-9601B	08/909,989	08/12/97	APPARATUS AND METHOD FOR MEASURING COLOR	USP 5,883,708
JL-9601C	08/909,666	08/12/97	APPARATUS AND METHOD FOR MEASURING COLOR	USP 6,040,902
JL-9601D	09/267,825	03/12/99	APPARATUS AND METHOD FOR MEASURING COLOR	USP 6,307,629
JL-9601E	09/397,156	09/15/99	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,490,038
JL-9601F	10/302,459	11/22/02	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	awaiting action
JL-9602	08/582,054	01/02/96	METHOD FOR DETERMINING OPTICAL CHARACTERISTICS OF TEETH	USP 5,759,030
JL-9602B	08/909,982	08/12/97	APPARATUS AND METHODS FOR MEASURING THE COLOR OF TEETH	USP 5,871,351
JL-9602C	08/909,991	08/12/97	APPARATUS AND METHODS FOR MEASURING THE COLOR OF TEETH	USP 5,851,113
JL-9602D	08/909,664	08/12/97	APPARATUS AND METHODS FOR MEASURING THE COLOR OF TEETH	USP 6,264,470
JL-9602E	09/872,071	06/01/01	APPARATUS AND METHODS FOR MEASURING THE COLOR OF TEETH	amendment submitted
JL-9602F	09/904,610	07/12/01	APPARATUS AND METHODS FOR MEASURING THE COLOR OF TEETH	awaiting action
JL01.PCT.US-A	09/091,208	06/08/98	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,233,047
JL01.PCT.US-B	09/586,539	05/31/00	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,301,004
JL01.PCT.US-C	09/968,302	10/01/01	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,381,017
JL01.PCT.US-D	10/134,087	04/25/02	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,570,654
JL01.PCT.US-E	10/407,623	04/04/03	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	Notice of Allowance mailed 10/28/04



<u>Docket No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>	<u>Status</u>
JJL02.PCT.US-A	09/091,170	6/8/1998 (CPA filed 6/16/00)	METHODS FOR DETERMINING OPTICAL CHARACTERISTICS OF A DENTAL OBJECT USING A VIDEO CAMERA AND A COLOR CALIBRATION STANDARD	USP 6,254,385
JJL02.PCT.US-B	09/865,801	05/25/01	METHODS FOR DETERMINING OPTICAL CHARACTERISTICS OF A DENTAL OBJECT USING A VIDEO CAMERA AND A COLOR CALIBRATION STANDARD	USP6,726,476
JJL02.PCT.US-C	10/407,624	04/04/03	METHODS FOR DETERMINING OPTICAL CHARACTERISTICS OF A DENTAL OBJECT USING A VIDEO CAMERA AND A COLOR CALIBRATION STANDARD	awaiting action
JJL03	08/886,223	07/01/97	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 5,926,262
JJL03.PCT.US	09/462,020	12/29/99	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,501,542
JJL03.PCT.US-B	10/302,512	11/22/02	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	Notice of Allowance mailed 11/03/04
JJL04	08/886,564	07/01/97	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	USP 5,880,826
JJL04.PCT.US	09/462,016	12/29/99	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	USP 6,271,913
JJL04.PCT.US-B	09/922,180	08/02/01	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	USP 6,573,984
JJL04.PCT.US-C	10/453,832	06/02/03	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	awaiting action
JJL04B	09/263,919	03/05/99	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	USP 6,249,340
JJL04C	09/429,761	10/28/99	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	USP 6,188,471

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JJL04D	09/626,933	07/27/00	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF TEETH	USP 6,222,620
JJL05	08/886,566	07/01/97	METHOD AND APPARATUS FOR DETECTING AND PREVENTING COUNTERFEITING	USP 5,966,205
JJL05B	09/360,529	07/26/99	METHOD AND APPARATUS FOR DETECTING AND PREVENTING COUNTERFEITING	USP 6,038,016
JJL05C	09/500,199	02/07/00	METHOD AND APPARATUS FOR DETECTING AND PREVENTING COUNTERFEITING	USP 6,249,339
JJL06	09/113,656	07/10/98	APPARATUS & METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,239,868
JJL06.CIP1	09/113,033	07/09/98	APPARATUS & METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,118,521
JJL06B	09/657,770	01/08/01	APPARATUS & METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,417,917.
JJL06C	10/161,853	06/03/02	APPARATUS & METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,538,726
JJL07	09/113,805	07/09/98	METHOD AND APPARATUS FOR DETECTING CURVATURE	USP 6,127,673
JJL08	09/198,591	11/23/98	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,449,041
JJL08B	10/215,726	08/08/02	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	Notice of Allowance mailed 09/27/04
JJL09	09/471,953	12/23/99	INTEGRATED SPECTROMETER ASSEMBLY AND METHODS	USP 6,246,479
JJL09B	09/872,365	06/01/01	INTEGRATED SPECTROMETER ASSEMBLY AND METHODS	USP 6,519,037
JJL10	09/471,300	12/23/99	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,249,348
JJL10B	09/872,039	06/01/01	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	awaiting action
JJL10C	09/881,371	06/13/01	SPECTROMETER ASSEMBLY	USP 6,362,888

<u>Docket No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>	<u>Status</u>
JL10D	10/103,514	03/21/02	SPECTROMETER ASSEMBLY	USP 6,590,660
JL11	09/480,312	01/10/00	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,246,471
JL11B	09/877,847	06/08/01	SPECTROMETRIC APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,414,750
JL11C	10/160,843	05/30/02	SPECTROMETRIC APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	USP 6,583,866
JL12	09/524,121	03/13/00	APPARATUS FOR MEASURING OPTICAL CHARACTERISTICS OF A SUBSTRATE AND PIGMENTS APPLIED THEREON	USP 6,373,573
JL12B	09/524,121	01/04/02	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT	Issue Fee paid 11/16/04
JL13.PCT.US	10/168,696	06/20/02	APPARATUS AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS OF AN OBJECT OR MATERIAL	awaiting action
JL14	10/081,879	02/21/02	MINIATURIZED SYSTEM AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS	awaiting action
JL15	10/923,647	08/19/04	MINIATURIZED SYSTEM AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS	awaiting action